Issue #16482:
Pyplot hlines and vlines do not use the 'lines.color' property in rcParams by default

Branch with fix: https://github.com/RiazCharania/matplotlib/tree/issue_16482

Description:

  The issue was that hlines and vlines would not always default to the 'lines.color' property in rcParams. This was fixed by changing the default argument parameter for colors in the respective functions to None instead of 'k'(black). This decision means that regardless of whether colors=None or is unspecified, the default behaviour will now user the default color cycle instead of black.

Issues encountered:

  The first attempt was to set the default parameter directly to the rcParams value. But this didn't fit with how other arguments were handled and lead to unexpected results.

  The second idea was to leave the default behaviour how it was and only set it to the rcParams property if that had been changed. But the current behaviour is not clearly documented in the documentation and though it might work as intended, it doesn't seem to. We could've just edited the documentation but instead chose a solution where the behaviour worked consistently regardless of whether colors=None or unspecified, even when the rcParams value hasn't been changed and edited the documentation accordingly. This shouldn't impact experienced users and the functionality will be clear and correct for newer or casual users.

Impact of the change:

As mentioned earlier, now if you initialize hlines or vlines with the initial rcParams value for line.color, the color will not be black, it will be the initial color of the cycle instead, blue.

Modified files (From the root directory):
- lib/matplotlib/axes/_axes.py
- lib/matplotlib/pyplot.py
- lib/matplotlib/tests/test_pyplot.py
  - unit tests were added

Unit Tests:

1. If you haven't already, follow the instructions in the Deliverable 2 README
2. cd to directory dir
3. Checkout and build branch issue_16482 by running
   a. cd matplotlib
   b. git checkout issue_16482
   c. python setup.py build
4. Run the unit test
   a. python -m pytest lib/matplotlib/tests/test_pyplot.py::test_default_line_colors
   b. python -m pytest lib/matplotlib/tests/test_pyplot.py::test_white_line_colors