Trade-decision flow

1. Compute portfolio drift

- Current positions are valued and a cash buffer is subtracted from net liquidation to determine the "investable" portion of the portfolio
- For every symbol, drift (in % and USD) and suggested action (BUY/SELL/HOLD) are calculated

2. Prioritize symbols

 Drifts whose dollar magnitude is below min_order_usd are dropped and the remaining records are sorted from largest to smallest absolute drift. Symbols at the end of this list are "low priority."

3. Size orders

- A reserve based on the cash-buffer configuration is set aside and the remaining cash (which may be negative, implying margin use) is available for trades
- For each drift in priority order:
 - i. BUY: Spend up to the lesser of drift notional or available cash. Quantities are floored to whole shares when fractional trading is disabled, potentially leaving unmet amounts for later allocation
 - ii. **SELL:** Quantities are likewise floored, reducing the cash raised if partial lots remain
- After this pass, any cash released by sells is redistributed proportionally across
 previously unmet buys, again subject to rounding and min_order_usd checks

4. Margin and leverage control

- Gross exposure and leverage are computed. If leverage exceeds max_leverage, buy
 orders are reduced or removed starting from the lowest-priority trade (reverse order),
 with rounding applied to the adjusted quantities
- Configuration parameters such as min_order_usd, allow_fractional, cash-buffer settings, and max_leverage come from settings.ini

5. Effects on low-priority stocks

- Rounding down shares for high-priority buys can free additional cash, but if the remaining amount is below min_order_usd, lower-priority symbols may receive no allocation.
- During leverage reduction, the algorithm trims or removes buy trades in reverse order, so lower-priority symbols are scaled back first, leaving higher-priority allocations intact. The drift records in alphabetical order, so if two symbols are of equal low priority, the one last (e.g. trim in reverse order) in the alphabet gets trimmed first

