This is false. Consider, in fact, one of the examples from the text, with two men and two women.

```
m prefers w to w'.

m' prefers w' to w.

w prefers m' to m.

w' prefers m to m'.
```

Note that there are no pairs at all where each ranks the other first, so clearly no such pair can show up in a stable matching.

 $<sup>^{1}</sup>$ ex359.539.196