```
mn_quo_append_wf  THM

⊢  ∀A:Type, R:(A*→A*→Prop).
|  (EquivRel x,y:A*. x R y) ⇒
|  (∀x,y,z:A*. (x R y) ⇒ ((z @ x) R (z @ y))) ⇒
|  (∀z:A*, y:x,y:A*//(x R y). z@_q y ∈ x,y:A*//(x R y))  by UnivCD
|
1. A : Type
2. R : A*→A*→Prop
3. EquivRel x,y:A*. x R y
4. ∀x,y,z:A*. (x R y) ⇒ ((z @ x) R (z @ y))
5. z : A*
6. y : x,y:A*//(x R y)
⊢  z@_q y ∈ x,y:A*//(x R y)  by (Unfold ‘member‘ 0) THEN (Analyze 6)
|
6. y1 : A*
7. y2 : A*
8. y1 R y2
⊢  z@_q y1 = z@_q y2
  by (Unfold ‘mn_quo_append‘ 0) THEN Analyze THEN (BackThru 4)
END
```