```
event_msg_eq_equiv  THM

⊢  ∀E:EventStruct. EquivRel(|E|)(_1 =msg=(E) _2)
| by D 0 THENA Auto THEN Unfold ‘event_msg_eq‘ 0 THEN Reduce 0

|    THEN InstLemma ‘msg_eq_equiv‘ [MS(E)] THENA Auto
|
1. E : EventStruct
2. EquivRel(|MS(E)|)(_1 =(MS(E)) _2)
⊢  EquivRel(|E|)((msg(E)(_1)) =(MS(E)) (msg(E)(_2)))
  by InstLemma ‘induced_equiv_rel‘ [|MS(E)|;|E|;msg(E);λx,y. x
     =(MS(E)) y] THEN All Reduce THEN Auto
END
```